

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Monticello										DOCKET NUMBER (2) 0 5 0 0 0 2 6 3										PAGE (3) 1 OF 0 2																																																																															
TITLE (4) Emergency Diesel Generator Auto Start Due to Fault on No. 1AR XFMR Cable Primary																																																																																																			
EVENT DATE (5) 0 3 1 8 8 4 8 4 - 0 1 3 - 0 0 0 4 1 7 8 4										LER NUMBER (6) 0 1 3 - 0 0 0 4 1 7 8 4										REPORT DATE (7) 0 0 0 4 1 7 8 4										OTHER FACILITIES INVOLVED (8) FACILITY NAMES DOCKET NUMBER(S) 0 5 0 0 0 1 1 0 5 0 0 0 1 1																																																																					
OPERATING MODE (9) N										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																																																																																									
POWER LEVEL (10) 0 0 0										20.402(a) 20.402(a)(1)(i) 20.402(a)(1)(ii) 20.402(a)(1)(iii) 20.402(a)(1)(iv) 20.402(a)(1)(v)										20.402(a) 20.402(a)(1) 20.402(a)(2) 20.73(a)(2)(i) 20.73(a)(2)(ii) 20.73(a)(2)(iii) 20.73(a)(2)(iv)										20.73(a)(2)(v) 20.73(a)(2)(vi) 20.73(a)(2)(vii)(A) 20.73(a)(2)(vii)(B) 20.73(a)(2)(viii) 20.73(a)(2)(ix)										20.73(a)(2)(v) 20.73(a)(2)(vi) 20.73(a)(2)(vii)(A) 20.73(a)(2)(vii)(B) 20.73(a)(2)(viii) 20.73(a)(2)(ix)										73.71(b) 73.71(c) OTHER (Specify in Abstract below and in Text, NRC Form 306A)																																																	
LICENSEE CONTACT FOR THIS LER (12) NAME Lawrence E. Pudlick, Engineer II																														TELEPHONE NUMBER AREA CODE 6 1 2 2 9 5 - 5 1 5 1																																																																					
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																																																																			
CAUSE B										SYSTEM E I A C I B I L 5 0 1 0 1 0										COMPONENT Y										MANUFACTURER Y										REPORTABLE TO NRC Y										CAUSE Y										SYSTEM Y										COMPONENT Y										MANUFACTURER Y										REPORTABLE TO NRC Y									
SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE) X NO																														EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR																																																																					

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Source air circuit breaker on the primary side of the station auxiliary transformer, No. 1AR, tripped, isolating one offsite AC power source. Subsequent lockout relay actuation initiated a fast start of the standby diesel generators. No transfer of loads to the diesel generators resulted since the primary offsite source remained intact. The diesel generators were shutdown and returned to standby status. Initial testing and inspection of No. 1AR transformer and source breaker failed to show any defects. Attempt to reclose the source air circuit breaker failed resulting in lockout relay actuation and a second fast start of the diesel generators. The diesel generators were again shutdown and No. 1AR transformer isolated. Investigation revealed a ground fault on the underground cabling. Cable on all three phases was replaced and tested and the cable conduit seal replaced.

The cable conduit seal will be inspected as part of the Preventative Maintenance Program to be completed during refueling outages.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/86

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Monticello	05000263	84	013	00	02	OF	02

TEXT (If more space is required, use additional NRC Form 308A's) (17)

On March 18, 1984 at 0620 CST, with the plant in cold shutdown and the reactor core unloaded, the source air circuit breaker (52) on the primary side of the station auxiliary reserve transformer, No. 1AR (EA), tripped, isolating one offsite AC power source. Subsequent transformer lockout relay (86) actuation initiated a fast start of the emergency standby diesel generators (EK). No transfer of plant load to the diesel generators resulted since the primary offsite source remained intact. The diesel generators were shutdown and returned to standby status.

Initial winding resistance, cross winding resistance and impedance tests on No. 1AR transformer showed no faults within the transformer. With no indication of problems in the transformer an attempt was made to reclose the source air circuit breaker. The air circuit breaker tripped. The trip actuated the transformer lockout relays which again initiated a fast start of the emergency diesel generators. The diesel generators were shutdown and returned to standby status and No. 1AR transformer isolated.

During the attempted reclosure of the source air circuit breaker, relay instrumentation showed high ground to neutral voltage indicating a ground fault in the underground cabling (CBL5). Further testing located the fault.

Investigation revealed that the ground fault was due to high moisture content within the cable. Water leakage from an inadequate conduit seal through a discontinuity in the cable outer jacket was the probable cause of the cable failure. Cable on all three phases was replaced and tested and the seal replaced. System declared operable March 26, 1984.

To prevent reoccurrence of a similar event, No. 1AR transformer conduit seal will be inspected as part of the Preventative Maintenance Program to be completed during refueling outages. This inspection will not be required on the other transformers since the conduit run and seal arrangement are unique to No. 1AR transformer.

Lab personnel were unable to identify the manufacturer of the cable. All systems and operating personnel responded properly to the event. This event had no effect on the health and safety of the public because the emergency diesel generators functioned as designed and the primary source of offsite power was available throughout the event. There have been no previous reportable events of a similar nature.



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401
Telephone (612) 330-5500

April 17, 1984

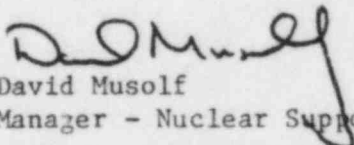
U S Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Emergency Diesel Generator Auto Start
Due to Fault on No. 1 AR Transformer Cable Primary

The License Event Report for this occurrence is attached.

This event was reported via Emergency Notification System per 10 CFR Part 72
on March 18, 1984.


David Musolf
Manager - Nuclear Support Services

DMM/js

c: Regional Administrator-III, NRC
NRR Project Manager, NRC
Resident Inspector, NRC
MPCA
Attn: J W Ferman

Attachment

IE22
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